

## ABSTRACT OF THE INVENTION

A method for changing the CPU frequency under control of a neural network. The neural network has  $m$  basis functions and  $n$  basis points that are connected together. Using the learning capability of the neural network to deduce basis weights based on  
5 dummy environmental parameters and a dummy output vector. In an application procedure, environmental parameters are input to the basis points and basis vectors are calculated based on the basis functions. Integrating the multiplication of each basis vector and its corresponding basis weight, an output vector can be generated to determine a control signal so that the CPU can be controlled to raise or lower its operating frequency. In addition, if the user has to change the parameters due to behavior, a fast learning function of a radial neural network can be used for complying with each user's behavior.